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Nov 30, 1999

DERWENT-ACC-NO: 2001-007593  
DERWENT-WEEK: 200254  
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TITLE: Sports shoe giving stable support via integral reinforcement has perforations in the intermediate reinforcement increasing comfort in an assembly bonded throughout by adhesive

INVENTOR: SCHENKEL, D L

PATENT-ASSIGNEE: CALCADOS AZALEIA SA (CALCN), SCHENKEL D L (SCHEI)

PRIORITY-DATA: 1998BR-0000597 (February 11, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
BR 9800597 A	November 30, 1999		016	A43B007/32
US 6418641 B1	July 16, 2002		000	A43B013/18

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
BR 9800597A	February 11, 1998	1998BR-0000597	
US 6418641B1	February 9, 1999	1999US-0247050	

INT-CL (IPC): A43 B 7/32; A43 B 13/18; A43 B 13/40

ABSTRACTED-PUB-NO: BR 9800597A  
BASIC-ABSTRACT:

*Ordered 1/24/03*

NOVELTY - The reinforcement (C), the inner sole (E) and the eg. leather (A) are assembled via adhesive, together with three sole sections (R,S,T). The inner sole of vinyl ethyl acetate or polyurethane, the sole of rubber and the reinforcement of eg. nylon or carbon fibre increase foot protection. Apertures (VD) and (VT) in the reinforcement (C) enhance damping and flexibility of the shoe.

USE - Shoes worn eg. by tennis players are required to damp the forces acting on the player's body and especially the feet.

ADVANTAGE - Thrust forces are absorbed.

DESCRIPTION OF DRAWING(S) - Leather A

Reinforcement C

Inner sole E

Section R

Section S

Section T

Aperture VD

Aperture VT

ABSTRACTED-PUB-NO: US 6418641B  
EQUIVALENT-ABSTRACTS:

NOVELTY - The reinforcement (C), the inner sole (E) and the eg. leather (A) are assembled via adhesive, together with three sole sections (R,S,T). The inner sole of vinyl ethyl acetate or polyurethane, the sole of rubber and the reinforcement of eg. nylon or carbon fibre increase foot protection. Apertures (VD) and (VT) in the reinforcement (C) enhance damping and flexibility of the shoe.

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Section T

Aperture VD

Aperture VT

CHOSEN-DRAWING: Dwg.10/1

DERWENT-CLASS: P22



**US 6,418,641 B1**

**Sport shoe with structural frame**

**Decio Luiz Schenkel, Rua General Emilio Lucio Esteves, 1353, Taquara-RS (Brazil)**

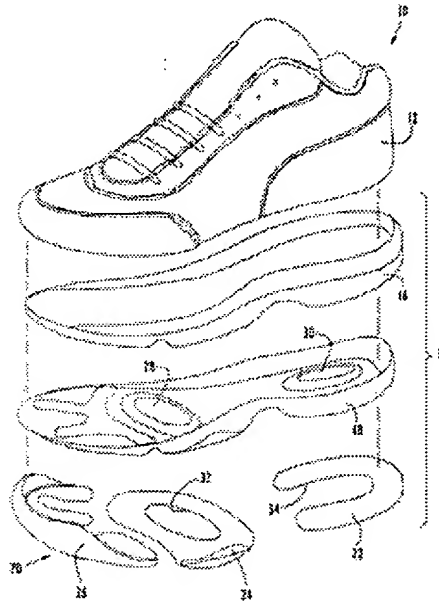
**Filed on Feb. 09, 1999, as Appl No. 9/247,050.**

**Claims priority of application No. 9800597 (BR), filed on Nov. 02, 1998.**

**Int. Cl. <sup>7</sup> A43B 13/18**

**U.S. Cl. 36—28**

**4 Claims**



1. A shoe comprising an upper and a structural frame system including (a) an insole positioned adjacent and just below said upper and being fixed thereto; (b) a frame positioned adjacent and just below said insole, said frame having a front cutout and a rear cutout, said frame being fixed to said insole; and (c) a sole made up of a plurality of separate, spaced, disconnected parts fixed to said frame, a first of said parts having a cutout which coincides with said front cutout of said frame, and a second of said parts having a cutout which coincides with said rear cutout of said frame, said insole being exposed through said cutout of said first of said parts and said front cutout of said frame and through said cutout of said second of said parts and said rear cutout of said frame.